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Plan Review for Erosion and Sediment Control



Ground Rules

- Keep cell phones off during the training
- Questions and comments are encouraged
- Everyone will have an opportunity to speak and share their thoughts at the appropriate times
- Be supportive of all participants

Agenda Day 1

- 8:30 – 9:15 Module 1 – Course Overview & Certification
- 9:15 – 10:00 Module 2 – Fundamentals of Erosion and Stormwater Runoff
- 9:45 – 10:00 Break
- 10:00 – 12:00 Module 3 – VESCP Elements and VESCL Overview
- 12:00 – 1:00 Lunch
- 1:00 – 2:15 Module 4 – Regulatory Requirements for Land Disturbing Activities
- 2:15 – 2:30 Break
- 2:30 – 4:00 Module 5 – ESC Plan Elements and the Plan Review Process
- 4:00 – 4:30 Questions and Answers

Agenda Day 2

- 8:30 – 9:45 Module 6 – Erosion and Sediment Control Measures
- 9:45 – 10:00 Break
- 10:00 – 10:45 Module 6 – Erosion and Sediment Control Measures (cont.)
- 10:45 – 12:00 Module 7 – Sediment traps and Sediment basin review
- 12:00 – 1:00 Lunch
- 1:00 – 2:00 Module 8 – Outlet Protection Review
- 2:00 – 2:45 Module 9a – ESC Narrative review
- 2:45 – 3:00 Break
- 3:00 - 4:00 Module 9b – ESC Site plan review
- 4:00 – 4:30 Questions and Answers

Agenda Day 2

- 8:30 – 9:30 Module 10 – Hydrology for Plan Reviewers
- 9:30 – 9:45 Module 10 Exercises
- 9:45 – 10:00 Break
- 10:00-11:00 Module 11 – Graphical Peak Discharge
- 11:00 - 11:30 Module 11 Exercises
- 11:30 – 12:00 Module 12 – Channel adequacy and Ditch Computations
- 12:00 – 1:00 Lunch
- 1:00 – 1:30 Module 12 Exercises
- 1:30 – 2:30 Module 13 – Stormwater Quantity Requirements and MS-19
- 2:30-2:45 Break
- 2:45 – 4:00 Module 14 – Channel and Flood protection
- 4:00 – 4:30 Questions and Answers

Module 1a.



Overview of the Virginia Erosion and Sediment Control Program (VESCP)



The Virginia Erosion and Sediment Control Program



VESCPs operate at the local level




Regulatory requirement for programs to prevent the unreasonable degradation of properties, stream channels, waters, and other natural resources

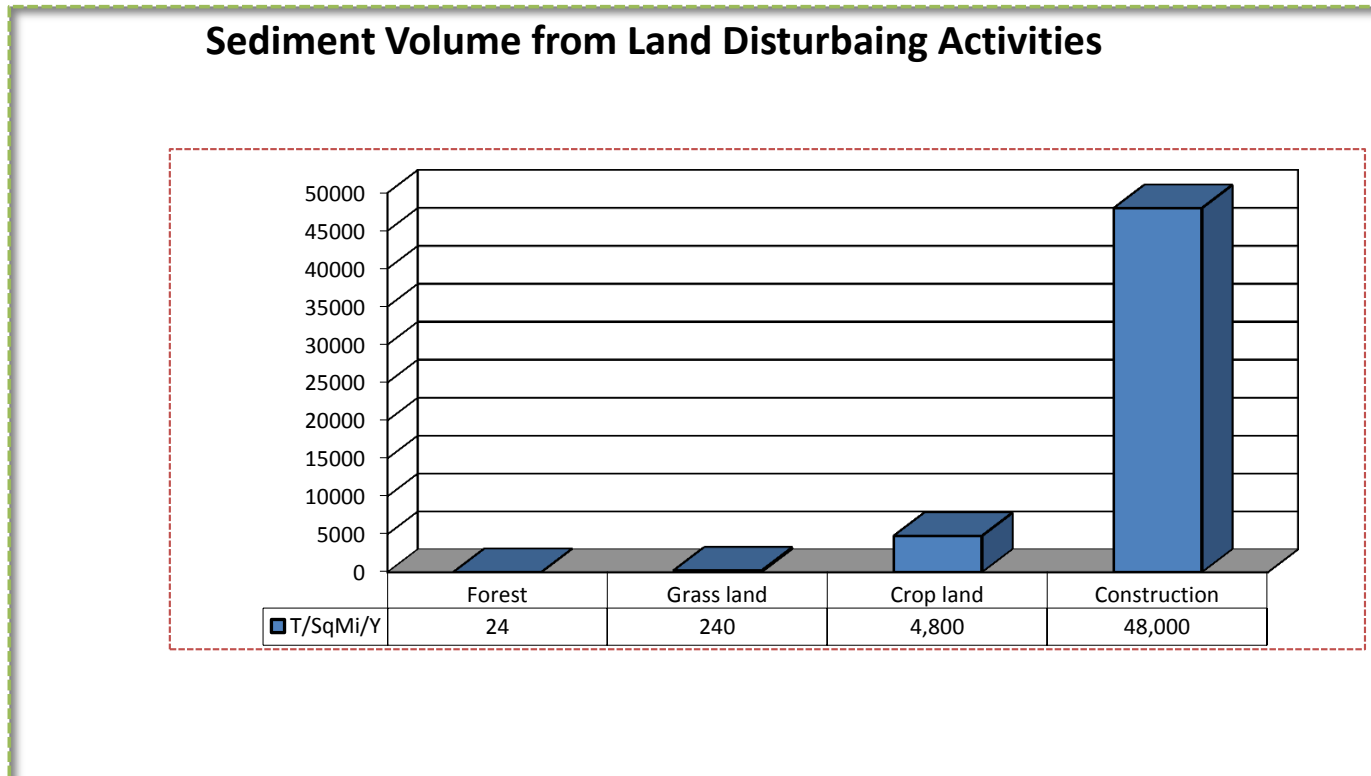
Virginia Erosion and Sediment Control Program

Overview to the Virginia Erosion and Sediment Control Program (VESCP)

Goal:

- 
- To control sediment from non-agricultural land disturbing activities
 - Prevent damaging downstream properties and natural resources from construction sites
 - Sediment loss from these land disturbing activities can be many times greater than other types of land disturbing activities

Overview to the Virginia Erosion and Sediment Control Program (VESCP)





Brief History of the VESCL

- **Federal Water Pollution Control Act of 1948 was the first major law to address water pollution**
- **Referenced clean water as a resource**
- **As a result of citizen pressure, scientific evidence and other influences, Congress passed the Clean Water Act of 1972**



Brief History of the VESCL

- The amended Act consolidated control of water pollution under the newly created Environmental Protection Agency (EPA)





Erosion and Sediment Control In Virginia

- The impetus for a statewide regulatory erosion and sediment control program began in the 60's
- In 1971 the Governor's Council on the environment created a task force to study the problem of sediment in state waters from construction sites



Erosion and Sediment Control In Virginia

- **State Attorney General Andrew P. Miller added emphasis to the issue when he issued an opinion stating:**

“The problem of sediment pollution is a cause of increasing concern in the Commonwealth, and its serious proportions and effects indicate a pressing need for the development of a comprehensive state sedimentation control program.”



Erosion and Sediment Control In Virginia

- The Virginia General Assembly passed the first version of the Erosion and Sediment Control Law in 1973
- The law directed the Soil and Water Conservation Commission to establish a statewide program to control sediment from non-agricultural runoff
- Every county and city in Virginia were required to adopt a local ESC program by 1974



Erosion and Sediment Control In Virginia

- Since 1974 the ESC law has undergone several changes
- The law was changed to require the Soil & Water Conservation Board to adopt regulations to control sediment and erosion from increased runoff of developing sites
- Those regulations became effective May 1, 1990

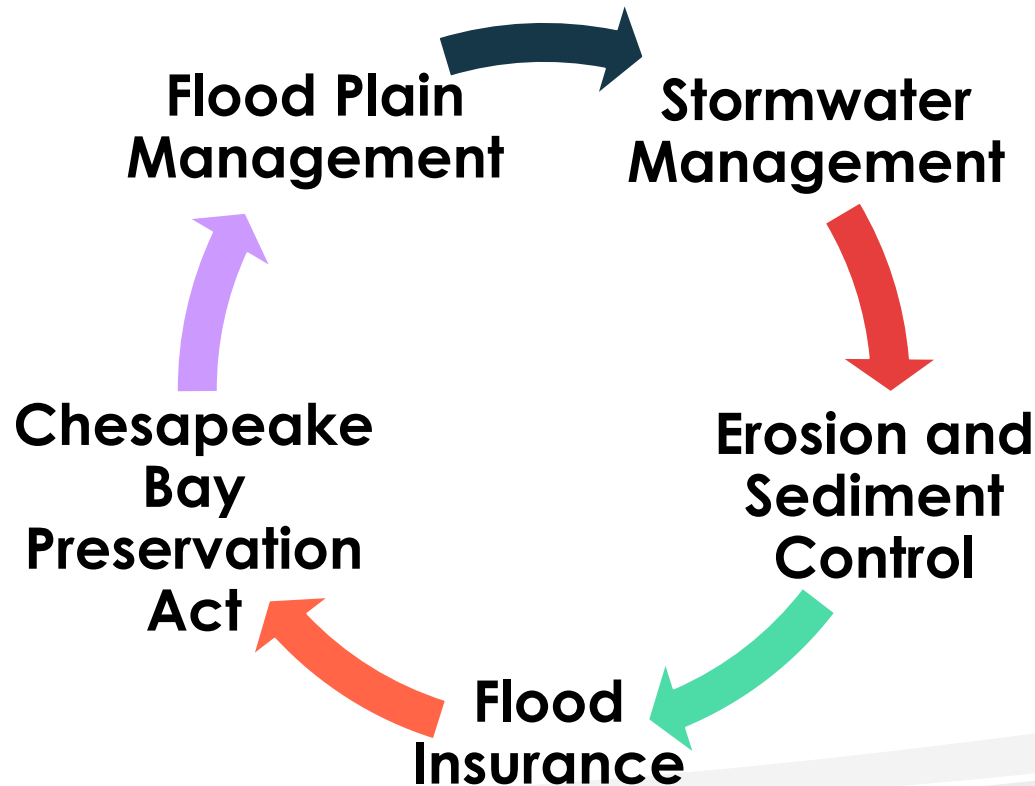


Erosion and Sediment Control In Virginia

- Most recent changes were in 2012 due to House Bill 1065 known as the integration Bill



Integration of the Programs



July 1, 2013 (consolidation bill)



- Erosion and Sediment Control
- Stormwater
- Chesapeake Bay Preservation
- MS4
- TMDL

Integration of the Programs

- During construction, stormwater runoff can also pickup and transport construction related waste and other pollutants which can pollute waterways and property.



Integration of the Programs

- The Virginia Stormwater Management Program (VSMP) regulations require operator's of regulated LDAs to develop and implement a stormwater *pollution prevention plan* which consists of an erosion and sediment control plan and pollution prevention plans



Integration of the Programs

- **After construction stormwater runoff remains a concern**
- **The addition of impervious surfaces such as pavement and roofs decreases a site's ability to infiltrate rainwater**



Integration of the Programs

After July 1, 2014 regulated land disturbing activities which are equal to or exceed one acre shall provide evidence of Virginia Stormwater Management Program Permit coverage (CGP Construction General Permit)



Erosion & sediment controls

(Vehicle washout)



Pollution prevention practices

(Concrete washout)



Post-construction stormwater management

(Rain garden)

Module 1b.

Training and Certification

Who Has to Be Certified?

- Program Administrators
- Inspectors
- Plan Reviewers



DEQ Training Courses

Program
Administrator

**Program
Administrator
1 day**

Inspector

**Inspector
2 days**

Plan Reviewer

**Plan Reviewer
3 days**

Combined
Administrator*

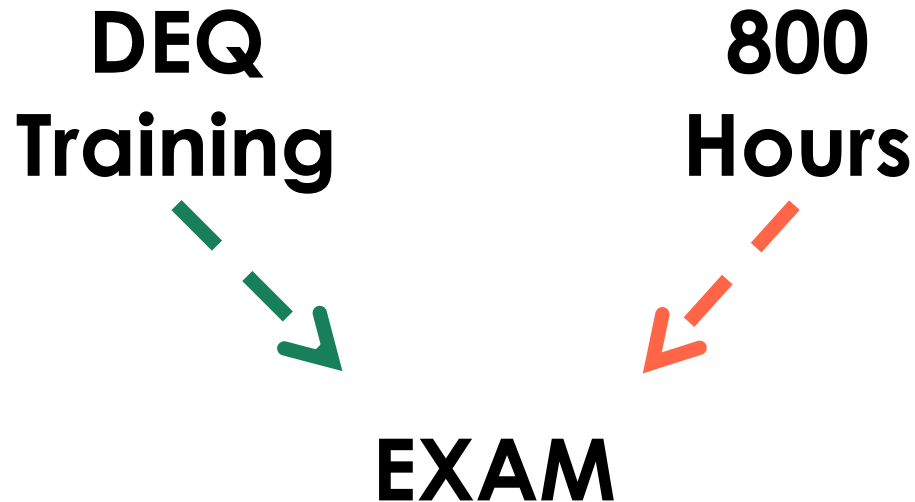
**Program
Administrator
1 day**

**Inspector
2 days**

**Plan Reviewer
3 days**

* The Combined Administrator Courses
may be taken in any order

How to Obtain a Certificate



800 Hours Work Experience

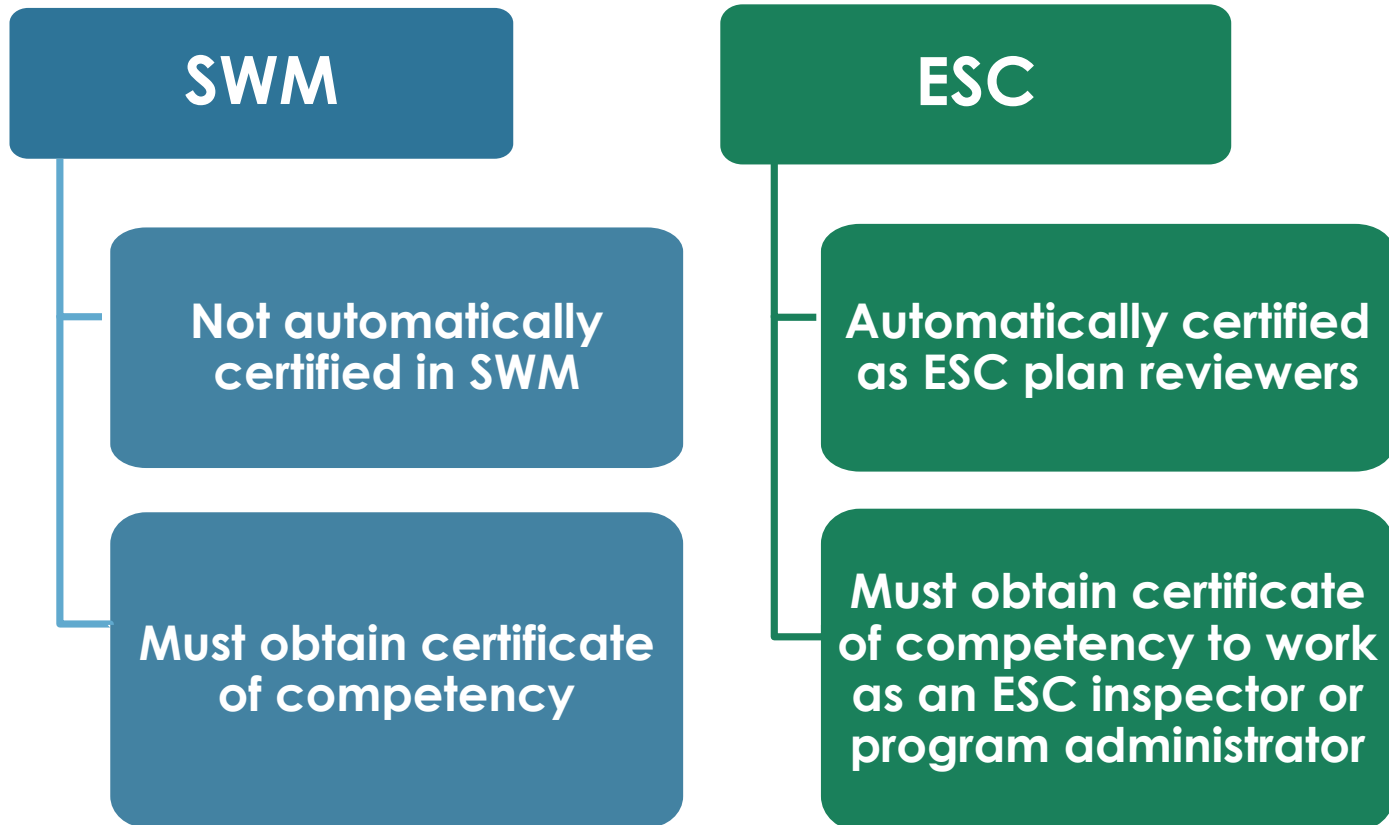
$$\begin{array}{ccccc} \text{800} & & & & \text{Eligible} \\ \text{Hours} & + & \text{DEQ} & = & \text{for} \\ & & \text{Form} & & \text{exam} \end{array}$$

Provisional Certification

**Take
training** **+** **Pass
exam** **=** **2
years**

You can only be provisionally certified once!

Licensed Professionals



Examination

- Administered by Pearson Vue
 - Taken on a computer
 - Open book

Examination

Program
Administrator
+ Inspector
2 hours

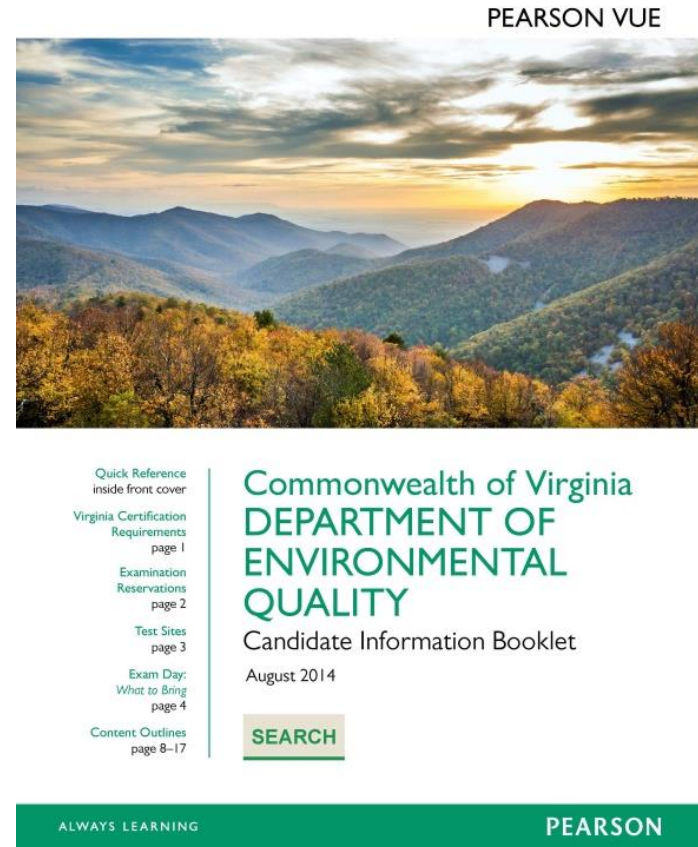
Plan
Reviewer
3 hours

Combined
Administrator
4 hours



Candidate Information Booklet

- Exam reservations
- What to bring
- What not to bring
- Candidate identification
- Course certificates
- Exam content outlines



Make sure the name on your course
certificate(s) matches your ID



- Your exam contains questions that are from the text of the VESCL and the VESCR that may not be addressed in the text of this participants guide.
- You are strongly encouraged to also review, highlight and tab the copy of the Law and Regulations as well as your participant guide!

Examination Results

- At least 70% to pass
- Results provided immediately
- Certificate emailed by CATS

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Certification and Accreditation Tracking System (CATS) Home Search Log In

Welcome! If you already hold a certificate, please click [Find My Profile](#) below and follow the directions.

Current RLD certificate? (want to print or renew it)

- Video - How to use Find My Profile (4 mins)
- Video - How to launch RLD course (4 mins)

Expired RLD certificate or New RLD certificate?

- Video - How to Create New Profile (5 mins)

Erosion or Stormwater certified? (renew with contact hours or combine for dual)

- Video - How to use Find My Profile (4 mins)
- Video - How to enter Contact Hours (5 mins)
- Video - How to add a Professional License (1 min)
- Video - How to combine certifications for Dual Certificate (2 mins)

Returning User

[Log In](#)

Log in to maintain your certifications.

New User

[Find My Profile](#)

Already certified? Click here to find your certificate and obtain your login details.

[Create New Profile](#)

Click here if new to CATS and seeking an RLD certificate.

Search

[Search](#)

Search for certificate holders.

Dual Certifications

ESC Program Administrator	+	SWM Program Administrator	=	Dual Program Administrator
ESC Inspector	+	SWM Inspector	=	Dual Inspector
ESC Plan Reviewer	+	SWM Plan Reviewer	=	Dual Plan Reviewer
ESC Combined Administrator	+	SWM Combined Administrator	=	Dual Combined Administrator

Re-Certification




All certificates are valid for 3 years

Re-Certification

Re-certification Options		
Re-take exam	Complete contact hours (\$) <i>Program admin:</i> 12 hours <i>Inspector :</i> 18 hours <i>Plan reviewer:</i> 21 hours <i>Combined admin:</i> 24 hours	Maintain professional license (\$)

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Search

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Search for certificate holders.

End of Module 1

QUESTIONS?